

ABSTRACT OF THE DISCLOSURE

An assembly of beam splitters of the invention includes a roof-prism, a triangle prism and a complementary prism; wherein the roof-prism has a first
5 emitting/receiving surface, the triangle prism has a second emitting/receiving surface and the complementary prism has a third emitting/receiving surface and a fourth emitting/receiving surface. A beam of first wavelength enters the assembly of beam splitters through the second
10 emitting/receiving surface, and leaves it through the first emitting/receiving surface. A beam of second wavelength parallel to the beam of first wavelength enters the assembly of beam splitters through the second emitting/receiving surface, and leaves it through the
15 third emitting/receiving surface. A beam of third wavelength enters the assembly of beam splitters through the fourth emitting/receiving surface, and leaves it through the first emitting/receiving surface. Thus, the optical axis of the beam of third wavelength is parallel
20 to the optical axis of the beam of first wavelength. In addition, an optical rangefinder uses the assembly of beam splitters, and shows data in dark environment well.